

**Department of Public Works and Transportation  
Montgomery County, Maryland**

***DIVISION OF SOLID WASTE SERVICES***



A cooperative effort auditing school trash and recycling materials  
with Waste Management, MCPS and the SORRT team.

***MONTHLY REPORT  
JULY 2002***



*Printed on Recycled and Recyclable Paper*

# **TABLE OF CONTENTS**

<u>OVERVIEW</u> .....	3
<u>CITIZEN COMMITTEES</u> .....	4
<u>COLLECTIONS</u> .....	4
<u>WASTE MINIMIZATION</u> .....	5
<u>HAZARDOUS WASTE PROGRAMS</u> .....	6
<u>AIR PERMITS AND ENVIRONMENTAL PROGRAMS</u> .....	6
<u>RECYCLING</u> .....	7
<u>PILOT PROGRAMS</u> .....	7
<u>FACILITY ACTIVITIES</u> .....	8
<u>GENERAL INFORMATION</u> .....	11
<u>SOLID WASTE FACTS IN A NUTSHELL</u> .....	12
<u>GLOSSARY OF ACRONYMS</u> .....	13

# **OVERVIEW**

## **Tonnage at a Glance**

The following table shows key material flows during the current month, fiscal year to date (FY Total), and current calendar month in the two prior fiscal years. (County fiscal year 2002 began July 1, 2001.)

*Table 1: Tonnage at a glance*

<b>FACILITY</b>	<b>Jul FY 03</b>	<b>FY 03 Total</b>	<b>Jul FY 02</b>	<b>Jul FY 01</b>
Materials Recovery Facility <sup>(1)</sup>	6,846 tons	6,846 tons	6,185 tons	5,589 tons
Brunswick Landfill Facility <sup>(2)</sup>	23,015 tons	23,015 tons	20,845 tons	12,647 tons
American Ash Recycling <sup>(3)</sup>	N/A	N/A	N/A	2,730 tons
Resource Recovery Facility <sup>(4)</sup>	58,509 tons	58,509 tons	54,032 tons	49,652 tons
Yard Trim Compost Facility	3,007 tons	3,007 tons	3,745 tons	3,503 tons

<sup>(1)</sup>MRF tons reported are outgoing.

<sup>(2)</sup>This category only addresses waste sent to the landfill for disposal. It does not include rubble that is recycled.

<sup>(3)</sup>Tons shipped out to ash recycling facility during the indicated period. All tons so shipped are recycled.

<sup>(4)</sup>RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here.

## **Revenue Analysis and Systems Evaluation** – During July, program staff:

- Trained phone staff to handle the seasonal surge in property billing questions, and answered seasonal level of billing and data inquiries.
- Made presentation to SWAC regarding nonresidential recycling economics.
- Continued participation in the County's Leadership Institute.
- Continued to carry out routine seasonal duties of the Management & Budget Specialist III position remaining vacant for most of the month; thereafter assisted in training the new incumbent, Scott McClure.
- Completed detailed analysis of FY02 expenditures in Leaf Vacuuming Program and met with DHS on same.
- Met with DHS to plan data gathering during fall leafing season.
- Continued work on the year-end review of fixed assets depreciation schedule.
- Performed July billing for hauler credit accounts and assisted Finance with FY02 year-end accounting for credit accounts.
- Updated internal databases with respect to new properties, and prepared monthly report of service unit billing changes to County refuse and recycling collection contractors.

- Welcomed and began training Jeremy Souders to fill the Program Specialist I position for property account database quality assurance.

## **CITIZEN COMMITTEES**

**Facilities Implementation Group** – The next FIG meeting is scheduled for September 10<sup>th</sup> at the Gothic Barn in Dickerson. The agenda topic is the Non-Air Media Monitoring Program.

**Solid Waste Advisory Committee** – SWAC met Tuesday, July 2<sup>nd</sup>, in the EOB 6<sup>th</sup> Floor Conference Room. Eight SWAC members, six County staff and three guests were in attendance. DSWS staff gave a presentation on Non-Residential Recycling Economics. The Committee also discussed how the Maryland State Open Meetings Act applies to SWAC.

## **COLLECTIONS**

**Refuse** – Refuse collections went as scheduled for the month of July. Collections were made without incident.

**Contractor Performance** – During the month of July, DSWS received 734 complaints. This represented a 61 count decrease from July 2001, which had 795 complaints.

**Customer Service** – DSWS received 11,065 incoming calls and 169 follow-up calls were made for quality check. There were 1,483 blue bins delivered and 428 e-mail requests handled by the Customer Service Staff.

**Enforcement Actions** – Eight citations were issued for violations of the County's Solid Waste Laws:

Two citations	Early Morning collections	\$1,250
Two citations	Not having a valid collectors tag attached	\$1,000
One citation	Not having a current collectors license	\$750
One citation	Deposit solid wastes upon property of another	\$500
One citation	Dump, deposit or leave solid wastes at other than a solid waste acceptance facility	\$500
One citation	Leaving a collection vehicle unattended	\$100

One NOV was issued for leaving a collection vehicle unattended.

**Recycling** – Mixed paper tonnages for the residential program during the past 48 weeks are as follows:

***Table 2: Mixed paper recycling per week***

8/6/01 through 8/31/01	9.10 lbs. per household
9/3/01 through 9/28/01	10.08 lbs. per household
10/1/01 through 10/26/01	11.10 lbs. per household
10/29/01 through 11/23/01	10.83 lbs. per household
11/26/01 through 12/21/01	11.52 lbs. per household
12/24/01 through 1/18/02	9.58 lbs. per household
1/21/02 through 2/15/02	9.01 lbs. per household
2/18/02 through 3/15/02	9.02 lbs. per household
3/18/02 through 4/12/02	9.73 lbs. per household
4/15/02 through 5/10/02	9.81 lbs. per household
5/13/02 through 6/7/02	9.58 lbs. per household
6/10/02 through 7/5/02	9.21 lbs. per household

## **WASTE MINIMIZATION**

**Bicycle Recycling** – In July, 12 bikes were picked up by Pedals for Progress, and 225 bikes were picked up by Hands of Love, an organization that delivers aid of all types to the poor in Appalachia. The total weight of bikes sent out was about 1.3 tons.

**Computer Recycling** – Approximately 41 tons of computers were recycled.

**Department of Environmental Protection's Home Composting and Source Reduction Activities** – The Green Man column with recommendations on alternative (resource conserving) landscaping continues in several Maryland editions of The Gazette Newspapers and on the web at both <http://www.gazette.net/columnists/> and [greenman@askdep.com](mailto:greenman@askdep.com)



Videotaping for the field segments of The Green Man Show have begun. The cable program will start airing biweekly in October and will feature shows on composting, grasscycling, recycling, HHW management, resource conservation, IPM, and much more.

Full advertising schedule for Grasscycling, IPM, and pollution prevention is currently running in the Gazette Newspapers countywide, including weekend editions. Currently, ads are promoting mulching (and the Mulch Preserves Program) as a means for conserving water.



A workshop on Worm Composting was presented at Strathmore Hall for the Strathmore Hall Garden Club.

## **HAZARDOUS WASTE PROGRAMS**

**Household Hazardous Waste Collection** – One HHW event was held on Sunday, July 14<sup>th</sup> at the Transfer Station; the event served 905 patrons.

At the above event, 54 Hg thermometers were collected and 28 digitals were given out. In addition, 6 Hg thermometers were dropped off at the Transfer Station office, and 5 digital thermometers were given out.

Shop drawings for the roof over the HHW compound are being reviewed by County personnel.

**Small Quantity Generator Ecowise Program** – *One* Small Quantity Generator (SQG)/Ecowise event was held on July 10<sup>th</sup>; 10 businesses participated.

## **AIR PERMITS AND ENVIRONMENTAL PROGRAMS**

**Resource Recovery Facility (RRF): CEMS Tracking of RRF Operations** – The Continuous Emissions Monitoring System (CEMS) continued to track the percent load, certain engineering parameters and emissions of all three units. The system recorded emissions from all three units throughout the month. All three units were operating at nearly 100% load except on **Code Red** days discussed below.

July 3<sup>rd</sup> and 17<sup>th</sup> were forecast as "**Code Red**" days for the Washington Metropolitan Region. Therefore, all three units were run at approximately 70% load from midnight the previous day until 9 p.m. on the **Code Red** day.

For the month of July, Covanta's certified inspector performed the monthly "Opacity Test" for the RRF on July 24<sup>th</sup>. This is a requirement under Title V of the RRF Air Permit. The test showed zero percent (0%) opacity compared to the Air Permit limit of 10%.

In the first week of July, the set of Four CEMS CD-ROM's was updated to include CEMS data up to June 30, 2002. Copies of the CD-ROM's were placed in the Rockville and Poolesville libraries and distributed to FIG -SWAC Air Quality Subcommittee.

**FIG-SWAC Air Quality Subcommittee** – ENSR incorporated FIG's comments and finalized the Epidemiological Study Report. DSWS received 10 copies of the report in mid-July. Copies will be placed in the Poolesville and Rockville libraries.

ENSR is currently making revisions to the Non-Air Media Monitoring Program Report based on comments received from the Subcommittee. The revised report is expected in the second week of August.

**Oaks Landfill Energy Recovery Facility: Leachate Evaporation Technology** – The leachate evaporator operated for only 14 days in July. The ground-flare without leachate evaporation was operating for 10 days and the backup flare operated for 7

days. BENTECH is still continuing its efforts to implement an electrical generating facility.

**Contracts and RFP's** – The ENSR contract will expire in September 2002. In July, an amendment was prepared and submitted to the Office of Procurement to extend the contract one more year; a copy was also submitted to the Office of the County Attorney for review. The purpose of the amendment is to allow ENSR to complete the RRF Heath Risk Study Update and the Cumulative Health Risk Study.

## **RECYCLING**

**Public Outreach** – The Recycling Task Force met on July 17<sup>th</sup>. Canvassing on the mixed paper recycling program has concluded. Filming of the new video on what happens to recyclables and the importance of buying recycled is underway. The comprehensive brochure on recycling in the County is being printed.

**Commercial Recycling and Waste Reduction** – Staff continued to perform on-site visits of businesses in July and resolved several complaints. Staff participated in outreach events at a summer camp and the Damascus Library and gave a presentation to 25 members of the Bethesda Kiwanis Club. The summer issue of the SORRT Network Newsletter was mailed at the end of the month.

**Multi-Family Recycling** – Recruiting for the Program Manager of the Multi-Family Recycling Program is underway. Staff continued to perform on-site evaluations of recycling programs and work with property managers and residents to provide assistance and support.

**Mixed Paper Recycling** – Canvassing is complete. Paper bags reiterating the do's and don'ts of mixed paper recycling at the curb are being distributed at all outreach events.

**Volunteer Activities** – The new Program Manager of the Recycling Volunteer Program started on July 15<sup>th</sup>. On July 14<sup>th</sup>, 10 volunteers assisted at the HHW collection held at the Transfer Station.

## **PILOT PROGRAMS**

**Mixed Paper Pilot** – The July totals for the Potomac Paper Toter program are:

*Table 3: July totals for Potomac paper program*

7/10/02	14,500 lbs.	17.90 lbs. per household
7/17/02	14,800 lbs.	18.27 lbs. per household
7/24/02	15,040 lbs.	18.57 lbs. per household
<u>7/31/02</u>	<u>14,060 lbs.</u>	<u>17.36 lbs. per household</u>
Total	58,400 lbs.	18.02 lbs. average for July

The current average weight per house for the 43 weeks of the totter program is 20.06 lbs. as opposed to 13.99 lbs. per house prior to the program. This represents a 43.39% increase in the mixed paper capture rate since the start of the totter program.

**Tubgrinding Pilot** – Tubgrinding of screened reject material has ended, the rejected material is being shipped to the RRF.

## **FACILITY ACTIVITIES**

**Resource Recovery Facility** – Of the 58,509 tons processed in July, 1,325 tons were reject material from the Compost Facility. For the most part, the facility ran a 3 boiler operation at full load.

There were no significant safety incidents during the month. The facility continues to operate with no OSHA recordable accidents in over 850 days.

There were no generation emergencies issued by Mirant during the month of July and there was no need to purchase power during the month

There were two Forecasted Ozone-Code Red alert days in July on the 3<sup>rd</sup> and the 17<sup>th</sup>. On those days, boiler load was curtailed to 70% MCR.

The following environmental activities occurred:

- Submitted the 2<sup>nd</sup> Qtr 2002 Operations and Emissions Report to MDE.
- Submitted the EPA Semiannual Report (1<sup>st</sup> half of calendar year 2002) required by 40 CFR 60 Subpart Cb.
- Submitted the 2<sup>nd</sup> Qtr 2002 NPDES Report to NMWDA/MDE.
- Submitted the 2<sup>nd</sup> Qtr 2002 Bacteriological Monitoring Report to MDE.
- Submitted the June 2002 Potable Water Monthly Operating Report to MDE.
- Performed the monthly visible emission (Method 9) observation required by the Title V Permit on July 24<sup>th</sup>.
- The CEMS technician, Syl Ebron, submitted updated CD-ROM's to Montgomery County that included data for June 2002.

**Materials Recovery Facility** – Approximately 1,991 tons of commingled material were shipped out for processing at alternative facilities and approximately 4,855 tons of mixed paper were loaded out and transferred to the Office Paper Systems processing facility.

Removal of the old processing system equipment began July 1<sup>st</sup>. Installation of the new processing system equipment began July 11<sup>th</sup>. Recycle America was the successful bidder for the old processing equipment.

**Oaks Landfill** – SCS Field Services submitted design documents to the County to review for pipe replacement and system upgrades to the landfill gas management system.



An IFB for subdividing the leachate storage lagoons to facilitate long-term maintenance is awaiting review at the Office of Procurement.

**Gude Landfill** – Highway and Safety Services, Inc. submitted a cost estimate for correcting several additional ponded areas not included in the FY02 work at the site.

**Beantown Dump** – Installation of the passive landfill gas venting system by SCS Field Services will begin in August. The contract was signed, and a Notice to Proceed was given to the contractor. The first phase of this work includes installation of 58 gas venting wells. A second phase including installation of 30 gas venting wells will occur in 2003 when a site currently being improved is complete, allowing wells to be installed after final grades are established and improvements completed.

**Transfer Station** – During July, Covanta shipped via rail 52,362 tons of processible waste from the Transfer Station to the RRF; 3,864 more tons than shipped in July 2001.

Litter was collected by MES along Shady Grove Road from Route 355 to the intersection with Muncaster Mill Road.

Covanta started work on repairs to the concrete tipping floor.

An Amtrak train derailment caused some disruptions to rail service in the area including the dedicated waste train that serves the Transfer Station. This resulted in some waste being stored in the pit overnight on one occasion.

The radiation detectors had 26 alarms in July including several false alarms (alarms that could not be re-verified) - all valid alarms were from medical isotopes with short half-lives, and as such, all medically related waste material was accepted.

Large volumes of waste continue to make the Transfer Station extremely busy, requiring staff to spend more time managing traffic near the scales than has been required in the past.

**Site 2 Landfill Properties** – Submitted a refuse disposal permit renewal application to MDE.

**Solid Waste Facilities Master Plan** – The draft report will be distributed to FIG members.

URS will discuss their initial findings on historical identification and interpretations in accordance with Chapter 5 of the Plan.

**Yard Trim Compost Facility** – In the month of July, 3,007 tons of grass were delivered at the yard trim facility for composting.

Since processing of screened reject materials ended in FY02 there are about 3,500 tons of discarded material on site. In July 1,326 tons of this debris was sent to the RRF.

A malfunction riser led to a leak of water from pond # 2. Analysis of the water collected indicated it was not in compliance with NPDES discharge permit limits. No leaking water was discharged into the receiving stream. Since the permit allows irrigation of the pond water on designated fields at the facility, the water is therefore being used to irrigate the fields to draw it down to repair the riser

**Bagging Operation** – In July, 15,002 bags of Leafgro were shipped to distributors. (Each bag is 1.5 cubic ft. weighing about 45 lbs.)

**Linden Farm Renovations** – Under the signed bagging agreement between SCA and the County, the County is to renovate the Feed and Bank Barn. The renovation work is complete. The painting of the barns and silos has been completed.

## **Out-of-County Haul**

**Brunswick County, Virginia** - During July, a record volume of about 17,402 tons of ash residue and 5,613 tons of nonprocessable waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc. (BWMF) Landfill in Brunswick County, Virginia. About 44 tons of material were recycled at Clean Earth in Hagerstown, MD. BWMF corporate staff are reviewing a draft contract amendment that would result in a lease-to-own arrangement for five additional nonprocessable waste container/chassis combinations to assist with increasing waste volumes.

## **GENERAL INFORMATION**

### **Important Telephone Numbers**

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	301-840-2370 (County Office) 301-590-1032 (Covanta)
Materials Recovery Facility	301-840-2701 (County Office) 301-417-1447 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	<a href="http://www.mcrecycles.org">www.mcrecycles.org</a>

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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## **SOLID WASTE FACTS IN A NUTSHELL**

<b>TOPIC OR FACILITY</b>	
Latest Recycling Rate Reported in Montgomery County	37.2% (FY01)
Recycling Goal	45% by December 2002 50% by December 2004
Resource Recovery Facility (RRF)	Guaranteed Capacity = 85% of 1800 TPD on an annual basis (558,450 tons/yr).
Yard Trim Composting Facility (DCF)	Operations limited to receipt of 77,000 tons/year under Sugarloaf Settlement Agreement. FY01 tons received- 59,643
# Residences receiving trash collection by County contractors	84,784
# Residences receiving collection of recyclables in blue bins and yard waste collection	200,725
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started on October 20, 1997.)

## GLOSSARY OF ACRONYMS

AAR	American Ash Recycling, Inc.
APC	Air Pollution Control
ASME	American Society of Mechanical Engineers
BFI	Browning Ferris Industries
CDL	Commercial Driver's License
CEMS	Continuous Emissions Monitoring System
CFR	Code of Federal Regulation
CIP	Capital Improvements Program
COG	Metropolitan Washington Council of Governments
CSX	Chesapeake Transportation Systems
DEP	Department of Environmental Protection
DFS	Division of Facilities and Services
DNR	Maryland Department of Natural Resources
DSWS	Division of Solid Waste Services
EPA	Environmental Protection Agency
FIG	Facilities Implementation Group
HCFA	Health Care Financing Administration
HHW	Household Hazardous Waste
IFB	Invitation For Bid
IPM	Integrated Pest Management
LFG	Landfill Gas
LTTS	Leachate Thermal Treatment System
MCPS	Montgomery County Public Schools
MCR	Maximum Continuous Rating
MDE	Maryland Department of Environment
MES	Maryland Environmental Service
Mg/l	milligrams per liter
M-NCPPC	Maryland National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MWh	Mega Watt hours
NEA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
NPDES	National Pollution Discharge Elimination System
NTP	Notice to Proceed
OLAC	Oaks Landfill Advisory Commission
OMB	Office of Management and Budget
OPS	Office Paper Systems
PEPCO	Potomac Electric Power Company
PSA	Public Service Announcement
RFP	Request for Proposal
ROL	Reduced Operating Level
RRF	Resource Recovery Facility
SCA	Sugarloaf Citizens Association
SHA	State Highway Administration
SORRT	Smart Organizations Reduce and Recycle Tons
SDAT	State Department of Assessments and Taxation
SWAC	Solid Waste Advisory Committee
TXA170	Computer Interface Program
TCLP	Toxic Characteristic Leaching Procedure
TPD	Tons Per Day
T.R.R.A.C.	Think Reduce and Recycle at Apartments and Condominiums
UT	Ultra-sonic Testing
WM	Waste Management
YTCF	Yard Trim Composting Facility